

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

1. (Previously Presented) An article of manufacture for use in a computer system for providing assistance to a programmer writing computer programming code, said assistance comprising suggested candidates responsive to a parsing of a partial program instruction statement, said article of manufacture comprising a computer-useable storage medium having a computer program embodied in said medium which causes the computer system to execute operations comprising:

parsing a partial program instruction statement into tokens;  
determining whether the tokens match one of a plurality of syntax statements;  
moving a cursor positioned on one of the tokens for which the match is determined to a following token in response to determining that the token matches one of the syntax statements;  
in response to determining that the token on which the cursor is positioned does not match one of the syntax statements generating proposals from the cursor position; and  
providing proposals to append to the partial program instruction statement to a user responsive to the parsing of the partial program instruction statement.

2. (Currently Amended) The article of manufacture of claim 1 wherein the ~~method~~ operations further comprise ~~comprises~~:

proposing an identified variable as a proposal responsive to a verb of the partial program instruction statement.

3. (Currently Amended) The article of manufacture of claim 1 wherein the ~~method~~ further comprise ~~comprises~~:

proposing an identified variable as a proposal responsive to a variable type of the variable.

4. (Currently Amended) The article of manufacture of claim 1 wherein the ~~method~~ operations further comprise ~~comprises~~:

proposing an identified variable as a proposal responsive to a verb of the partial program instruction statement or responsive to a variable type of the variable.

5. (Currently Amended) The article of manufacture of claim 1 wherein the ~~method~~ operations further comprise ~~comprises~~:

proposing an identified variable as a proposal responsive to a portion of the program containing the partial program instruction statement.

6. (Original) The article of manufacture of claim 1 wherein the parsing of the program and the parsing of the partial program instruction statement are performed according to a user-selected programming language dependent file selected from a plurality of programming language dependent files.

7. (Previously Presented) A method of providing a code assist function which suggests candidates responsive to a parsing of a partial program instruction statement, said method comprising:

parsing a partial program instruction statement into tokens;  
determining whether the tokens match one of a plurality of syntax statements;  
moving a cursor positioned on one of the tokens for which the match is determined to a following token in response to determining that the token matches one of the syntax statements;  
in response to determining that the token on which the cursor is positioned does not match one of the syntax statements generating proposals from the cursor position; and  
providing proposals to append to the partial program instruction statement to a user responsive to the parsing of the partial program instruction statement.

8. (Original) The method of claim 7 further comprising:  
proposing an identified variable as a proposal responsive to a verb of the partial program instruction statement.

9 (Original) The method of claim 7 further comprising:  
proposing an identified variable as a proposal responsive to a variable type of the  
variable.

10 (Previously Presented) The method of claim 7 further comprising:  
proposing an identified variable as a proposal responsive to a verb of the partial program  
instruction statement or responsive to a variable type of the variable.

11. (Original) The method of claim 7 further comprising:  
proposing an identified variable as a proposal responsive to a portion of the program  
containing the partial program instruction statement.

12. (Original) The method of claim 7 wherein the parsing of the program and the  
parsing of the partial program instruction statement are performed according to a user-selected  
programming language dependent file selected from a plurality of programming language  
dependent files.

13. (Previously Presented) A computer system for providing a code assist function  
which suggests candidates responsive to a parsing of a partial program instruction statement, said  
computer system comprising:

a processor;

a computer readable medium;

a code assist engine in the computer readable medium executed by the processor to  
perform operation comprising:

parsing a partial program instruction into tokens;

determining whether the tokens match one of a plurality of syntax statements;

moving a cursor positioned on one of the tokens for which the match is  
determined to a following token in response to determining that the token matches one of  
the syntax statements;

in response to determining that the token on which the cursor is positioned does  
not match one of the syntax statements generating proposals; and

providing proposals to a user to append to the partial program instruction statement responsive to the partial program instruction statement.

14. (Original) The computer system of claim 13 wherein an identified variable is proposed as a proposal responsive to a verb of the partial program instruction statement.

15. (Original) The computer system of claim 13 wherein an identified variable is proposed as a proposal responsive to a variable type of the variable.

16. (Previously Presented) The computer system of claim 13 wherein an identified variable is proposed as a proposal responsive to a verb of the partial program instruction statement or responsive to a variable type of the variable.

17. (Original) The computer system of claim 13 wherein an identified variable is proposed as a proposal responsive to a portion of the program containing the partial program instruction statement.

18. (Original) The computer system of claim 13 wherein the parsing of the program and the parsing of the partial program instruction statement are performed according to a user-selected programming language dependent file selected from a plurality of programming language dependent files.

19. (New) The article of manufacture of claim 1, wherein the operations further comprise:  
determining whether an end of the program instruction statement is reached; and  
in response to determining that the end of the program instruction statement is reached, generating proposals.

20. (New) The method of claim 7, further comprising:  
determining whether an end of the program instruction statement is reached; and

in response to determining that the end of the program instruction statement is reached,  
generating proposals.

21. (New) The computer system of claim 7, wherein the operations further comprise:  
determining whether an end of the program instruction statement is reached; and  
in response to determining that the end of the program instruction statement is reached,  
generating proposals.